RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/586,026_
Source: _1FwO_
Date Processed by STIC: _7/26/06_

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: _10/586,026_   CRF Edit Date: _7/26/06_
                                      Edited by: _KL_

____   Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

____   Corrected the SEQ ID NO. Sequence numbers edited were:

_____

____   Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

_✓_   Deleted: _✓_ invalid beginning/end-of-file text ; ___ page numbers

____   Inserted mandatory headings/numeric identifiers, specifically:

_____

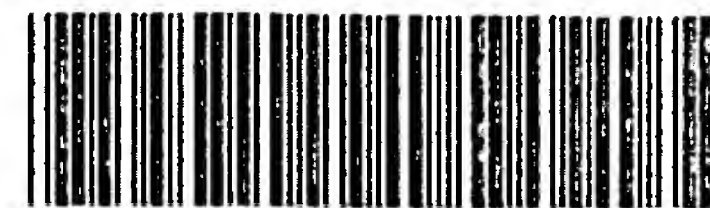____   Moved responses to same line as heading/numeric identifier, specifically:

_____

____   Other:

_____
_____
_____

IFWO

RAW SEQUENCE LISTING   DATE: 07/26/2006
PATENT APPLICATION: US/10/586,026   TIME: 17:59:23

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\07262006\J586026.raw**

```
 3 <110> APPLICANT: Wu, Wenping
 4         Schnorr, Kirk Matthew
 6 <120> TITLE OF INVENTION: Fungal cell wall degrading enzyme
 8 <130> FILE REFERENCE: 10515.204-US
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/586,026
C--> 10 <141> CURRENT FILING DATE: 2006-07-13
10 <160> NUMBER OF SEQ ID NOS: 4
12 <170> SOFTWARE: PatentIn version 3.3
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 945
16 <212> TYPE: DNA
17 <213> ORGANISM: Trametes cinnabarina
19 <400> SEQUENCE: 1
20 ggccattacg gccggggggtg cacagacgtc ggtgtccgag cacatcctat ctcactcaag    60
22 cttagaccac cttgggctac gacatgaagc tctctaccac agctctgctt gctattgcgg   120
24 tggcagtggc ctctgcttct cccactcccg agaagcgtgc caaccccaag ggcattgacg   180
26 tctcggctta ccaacccaac atcaactgga gcaccgtcaa agccaacggg atctcgttcg   240
28 catatatcaa ggcaaccgag ggtaccacgt ataccaaccc agacttctcg agccagtata   300
30 caggcgcgac taatgctgga ctcattcggg gcggctacca cttcgcccat cccgactcct   360
32 cttcaggcgc gactcaagcc aagtacttcc tggcccacgg aggtggatgg acaagcgacg   420
34 gaatcacact tccaggcgct ctcgacatcg agtataaccc tagcggggcg gagtgttatg   480
36 gcttaagcgc gtcggcgatg gtttcgtgga tcaaagactt ctccaatacc taccactcgt   540
38 cgaccggagt ttaccctgtt atttacacca ccacggactg gtggacgaca tgcacgggca   600
40 acagtgccgc gtttgcttcg acgaaccctc tatggattgc ccgctatgca tcaagcatcg   660
42 gcaccctgcc cgcaggttgg agttatacaa cgttctggca atatgctgac tcgggcccga   720
44 accctggtga ccaggatgag ttcaatggct cgatggcagg actgaagcag cttgcgctcg   780
46 ggtgaagtgg gatgtgaggt cgccggagaa gaagcagagt ccaccggcag cagtatccgt   840
48 cgtgtacatc atggtgtcat accatccgaa gacgatactc gagtcgtacg gacaattcgc   900
50 agcttcgtaa ctttgaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa                     945
53 <210> SEQ ID NO: 2
54 <211> LENGTH: 233
55 <212> TYPE: PRT
56 <213> ORGANISM: Trametes cinnabarina
58 <400> SEQUENCE: 2
60 Met Lys Leu Ser Thr Thr Ala Leu Leu Ala Ile Ala Val Ala Val Ala
61 1               5                   10                  15
64 Ser Ala Ser Pro Thr Pro Glu Lys Arg Ala Asn Pro Lys Gly Ile Asp
65             20                  25                  30
68 Val Ser Ala Tyr Gln Pro Asn Ile Asn Trp Ser Thr Val Lys Ala Asn
69             35                  40                  45
72 Gly Ile Ser Phe Ala Tyr Ile Lys Ala Thr Glu Gly Thr Thr Tyr Thr
73     50                  55                  60
76 Asn Pro Asp Phe Ser Ser Gln Tyr Thr Gly Ala Thr Asn Ala Gly Leu
```

```
 77 65                        70                   75                       80
 80 Ile Arg Gly Gly Tyr His Phe Ala His Pro Asp Ser Ser Ser Gly Ala
 81                 85                   90                   95
 84 Thr Gln Ala Lys Tyr Phe Leu Ala His Gly Gly Gly Trp Thr Ser Asp
 85             100                   105                   110
 88 Gly Ile Thr Leu Pro Gly Ala Leu Asp Ile Glu Tyr Asn Pro Ser Gly
 89         115                   120                   125
 92 Ala Glu Cys Tyr Gly Leu Ser Ala Ser Ala Met Val Ser Trp Ile Lys
 93     130                   135                   140
 96 Asp Phe Ser Asn Thr Tyr His Ser Ser Thr Gly Val Tyr Pro Val Ile
 97 145                   150                   155                   160
100 Tyr Thr Thr Thr Asp Trp Trp Thr Thr Cys Thr Gly Asn Ser Ala Ala
101                   165                   170                   175
104 Phe Ala Ser Thr Asn Pro Leu Trp Ile Ala Arg Tyr Ala Ser Ser Ile
105                   180                   185                   190
108 Gly Thr Leu Pro Ala Gly Trp Ser Tyr Thr Thr Phe Trp Gln Tyr Ala
109             195                   200                   205
112 Asp Ser Gly Pro Asn Pro Gly Asp Gln Asp Glu Phe Asn Gly Ser Met
113     210                   215                   220
116 Ala Gly Leu Lys Gln Leu Ala Leu Gly
117 225                   230
120 <210> SEQ ID NO: 3
121 <211> LENGTH: 34
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Upstream PCR primer for Seq ID no 1 having an EcoR1 site
added
128 <400> SEQUENCE: 3
129 gcggaattca acatgaagct ctctaccaca gctc                                34
132 <210> SEQ ID NO: 4
133 <211> LENGTH: 36
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial
137 <220> FEATURE:
138 <223> OTHER INFORMATION: Downsteam PCR primer for Seq ID no 1 having a Not1 site
added
140 <400> SEQUENCE: 4
141 atatgcggcc gcaaagttac gaagctgcga attgtc                              36
```

```
        RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 07/26/2006
        PATENT APPLICATION:  US/10/586,026      TIME: 17:59:24

        Input Set : A:\PTO.AMC.txt
        Output Set: N:\CRF4\07262006\J586026.raw
```

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4

VERIFICATION SUMMARY   DATE: 07/26/2006
PATENT APPLICATION: **US/10/586,026**   TIME: 17:59:24

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\07262006\J586026.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

Raw Sequence Listing before editing
(for reference only)

IFWO

RAW SEQUENCE LISTING   DATE: 07/25/2006
PATENT APPLICATION: US/10/586,026   TIME: 15:08:35

Input Set : **A:\01-SQ Listing-13 Jul 2006.txt**
Output Set: **N:\CRF4\07252006\J586026.raw**

```
   3 <110> APPLICANT: Wu, Wenping
   4        Schnorr, Kirk Matthew
   6 <120> TITLE OF INVENTION: Fungal cell wall degrading enzyme
   8 <130> FILE REFERENCE: 10515.204-US
```
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/586,026
C--> 10 <141> CURRENT FILING DATE: 2006-07-13
```
  10 <160> NUMBER OF SEQ ID NOS: 4
  12 <170> SOFTWARE: PatentIn version 3.3
```

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

```
 132 <210> SEQ ID NO: 4
 133 <211> LENGTH: 36
 134 <212> TYPE: DNA
 135 <213> ORGANISM: Artificial
 137 <220> FEATURE:
 138 <223> OTHER INFORMATION: Downsteam PCR primer for Seq ID no 1 having a Not1 site
added
 140 <400> SEQUENCE: 4
 141 atatgcggcc gcaaagttac gaagctgcga attgtc                        36
```
E--> 147 (3)

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 07/25/2006
PATENT APPLICATION: US/10/586,026   TIME: 15:08:36

Input Set : **A:\01-SQ Listing-13 Jul 2006.txt**
Output Set: **N:\CRF4\07252006\J586026.raw**

<u>**Invalid <213> Response:**</u>
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4

VERIFICATION SUMMARY   DATE: 07/25/2006
PATENT APPLICATION: **US/10/586,026**   TIME: 15:08:36

Input Set : **A:\01-SQ Listing-13 Jul 2006.txt**
Output Set: **N:\CRF4\07252006\J586026.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:147 M:254 E: No. of Bases conflict, this line has no nucleotides.